

SEQUENCE LISTING

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DOYLE, MICHAEL
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<120> PEPTIDE LIGANDS OF THE UROKINASE RECEPTOR

<130> 014024-0284102

<140> 09/155,260

<141> 1998-09-23

<150> PCT/US97/05199

<151> 1997-03-28

<150> 08/623,361

<151> 1996-03-28

<160> 76

<170> PatentIn Ver. 2.1

<210> 1

<211> 16

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide ligand

<400> 1

Ala	Glu	Pro	Val	Tyr	Gln	Tyr	Glu	Leu	Asp	Ser	Tyr	Leu	Arg	Ser	Tyr
1				5					10					15	

<210> 2

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peptide ligand

<400> 2

Ala	Glu	Phe	Phe	Lys	Leu	Gly	Pro	Asn	Gly	Tyr	Val	Tyr	Leu	His	Ser
1				5					10					15	

<210> 3

<211> 16

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

peptide ligand

<400> 3

Ala Glu Leu Asp Leu Ser Thr Phe Tyr Asp Ile Gln Tyr Leu Leu Arg
 1 5 10 15

<210> 4

<211> 16

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide ligand

<400> 4

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr Met Tyr Thr Leu
 1 5 10 15

<210> 5

<211> 11

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 peptide ligand

<220>

<221> MOD_RES

<222> (3)

<223> Any amino acid

<220>

<221> MOD_RES

<222> (5)..(6)

<223> Any amino acid

<400> 5

Tyr His Xaa Leu Xaa Xaa Gly Tyr Met Tyr Thr
 1 5 10

<210> 6

<211> 11

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
 peptide ligand

<220>

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<222> (4)..(6)

<223> Any amino acid

<400> 6

Phe Lys Leu Xaa Xaa Xaa Gly Tyr Val Tyr Leu
1 5 10

<210> 7

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<223> Description of Artificial Sequence: Synthetic
peptide ligand

<400> 7

Ala Glu Pro Met Pro His Ser Leu Asn Phe Ser Gln Tyr Ala Trp Tyr
1 5 10 15

<210> 8

<211> 16

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide ligand

<400> 8

Val Glu Tyr Arg Asp Ala Tyr Ser Tyr Pro Gln Tyr Leu Ser Tyr Leu
1 5 10 15

<210> 9

<211> 47

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide ligand

<400> 9

Asp Gln Glu Ser Cys Lys Gly Arg Cys Thr Glu Gly Phe Asn Val Asp
1 5 10 15

Lys Lys Cys Gln Cys Asp Glu Leu Cys Ser Tyr Tyr Gln Ser Cys Cys
20 25 30

Thr Asp Tyr Thr Ala Glu Cys Lys Pro Gln Val Thr Arg Gly Asp
35 40 45

<210> 10

<211> 17

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<223> Description of Artificial Sequence: Synthetic peptide ligand

<400> 10

Ala Glu Pro Val Tyr Gln Tyr Glu Leu Asp Ser Tyr Leu Arg Ser Tyr
1 5 10 15

Tyr

<210> 11

<211> 17

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide ligand

<400> 11

Ala Glu Leu Asp Leu Ser Thr Phe Tyr Asp Ile Gln Tyr Leu Leu Arg
1 5 10 15

Thr

<210> 12

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide ligand

<400> 12

Ala Glu Pro Val Tyr Gln Tyr Glu Leu Asp Ser Tyr Leu Arg Ser Tyr
1 5 10 15

Tyr

<210> 13

<211> 17

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide ligand

<400> 13

Ala Glu Phe Phe Lys Leu Gly Pro Asn Gly Tyr Val Tyr Leu His Ser
1 5 10 15

Ala

<210> 14
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 peptide ligand

<400> 14
 Ala Glu Leu Asp Leu Ser Thr Phe Tyr Asp Ile Gln Tyr Leu Leu Arg
 1 5 10 15

Thr

<210> 15
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<220>
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 peptide ligand

<400> 15
 Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr Met Tyr Thr Leu
 1 5 10 15

Asn

<210> 16
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<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide ligand

<400> 16
 Ala Glu Pro Met Pro His Ser Leu Asn Phe Ser Gln Tyr Leu Trp Tyr
 1 5 10 15

Thr

<210> 17
 <211> 19
 <212> PRT
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<220>
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 peptide ligand

<400> 17

Cys Leu Asn Gly Gly Thr Ala Val Ser Asn Lys Tyr Phe Ser Asn Leu
 1 5 10 15

His Trp Cys

<210> 18

<211> 6

<212> PRT

<213> Artificial Sequence

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 epitope tag

<400> 18

Glu Tyr Met Pro Met Glu
 1 5

<210> 19

<211> 15

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 19

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr Met Tyr Thr
 1 5 10 15

<210> 20

<211> 14

<212> PRT

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<223> Description of Artificial Sequence: Synthetic
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<400> 20

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr Met Tyr
 1 5 10

<210> 21

<211> 13

<212> PRT

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<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 21

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr Met
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<210> 22

<211> 12

<212> PRT

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peptide

<400> 22

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr
1 5 10

<210> 23

<211> 11

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<223> Description of Artificial Sequence: Synthetic
peptide

<400> 23

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly
1 5 10

<210> 24

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 24

Ala Glu Ser Thr Tyr His His Leu Ser Leu
1 5 10

<210> 25

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 25
 Ala Glu Ser Thr Tyr His His Leu Ser
 1 5

<210> 26
 <211> 8
 <212> PRT
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<220>
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 peptide

<400> 26
 Ala Glu Ser Thr Tyr His His Leu
 1 5

<210> 27
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 peptide

<400> 27
 Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr Met Tyr Thr Leu Asn
 1 5 10 15

<210> 28
 <211> 15
 <212> PRT
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<220>
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 peptide

<400> 28
 Ser Thr Tyr His His Leu Ser Leu Gly Tyr Met Tyr Thr Leu Asn
 1 5 10 15

<210> 29
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<220>
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 peptide

<400> 29

Thr Tyr His His Leu Ser Leu Gly Tyr Met Tyr Thr Leu Asn
1 5 10

<210> 30

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 30

Tyr His His Leu Ser Leu Gly Tyr Met Tyr Thr Leu Asn
1 5 10

<210> 31

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 31

His His Leu Ser Leu Gly Tyr Met Tyr Thr Leu Asn
1 5 10

<210> 32

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 32

His Leu Ser Leu Gly Tyr Met Tyr Thr Leu Asn
1 5 10

<210> 33

<211> 10

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 33

Leu Ser Leu Gly Tyr Met Tyr Thr Leu Asn
 1 5 10

<210> 34

<211> 9

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 34

Ser Leu Gly Tyr Met Tyr Thr Leu Asn
 1 5

<210> 35

<211> 8

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<400> 35

Leu Gly Tyr Met Tyr Thr Leu Asn
 1 5

<210> 36

<211> 11

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 36

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly
 1 5 10

<210> 37

<211> 11

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 37

Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr
1 5 10

<210> 38

<211> 11

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 38

Ser Thr Tyr His His Leu Ser Leu Gly Tyr Met
1 5 10

<210> 39

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 39

Thr Tyr His His Leu Ser Leu Gly Tyr Met Tyr
1 5 10

<210> 40

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 40

Tyr His His Leu Ser Leu Gly Tyr Met Tyr Thr
1 5 10

<210> 41

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 41
 His His Leu Ser Leu Gly Tyr Met Tyr Thr Leu
 1 5 10

<210> 42
 <211> 11
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<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 42
 His Leu Ser Leu Gly Tyr Met Tyr Thr Leu Asn
 1 5 10

<210> 43
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 43
 Ala Glu Ser Thr Tyr His His Gly Pro Asn Gly Tyr Met Tyr Thr Leu
 1 5 10 15

Asn

<210> 44
 <211> 17
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 44
 Ala Glu Ser Thr Tyr His His Ser Pro Asn Gly Tyr Met Tyr Thr Leu
 1 5 10 15

Asn

<210> 45
 <211> 17
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<220>
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peptide

<400> 45

Ala	Glu	Ser	Thr	Tyr	His	His	Ala	Pro	Asn	Gly	Tyr	Met	Tyr	Thr	Leu
1					5				10					15	

Asn

<210> 46

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 46

Ala	Glu	Ser	Thr	Phe	His	His	Leu	Ser	Leu	Gly	Tyr	Met	Tyr	Thr	Leu
1					5				10					15	

Asn

<210> 47

<211> 17

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (5)

<223> L1-Napthylalanine

<400> 47

Ala	Glu	Ser	Thr	Xaa	His	His	Leu	Ser	Leu	Gly	Tyr	Met	Tyr	Thr	Leu
1					5				10					15	

Asn

<210> 48

<211> 17

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (5)

<223> L2-Napthylalanine

<400> 48

Ala Glu Ser Thr Xaa His His Leu Ser Leu Gly Tyr Met Tyr Thr Leu
 1 5 10 15

Asn

<210> 49

<211> 17

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 49

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Phe Met Tyr Thr Leu
 1 5 10 15

Asn

<210> 50

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<220>

<221> MOD_RES

<222> (12)

<223> L1-Napthylalanine

<400> 50

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Xaa Met Tyr Thr Leu
 1 5 10 15

Asn

<210> 51

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<220>

<221> MOD_RES

<222> (12)

<223> L2-Napthylalanine

<400> 51

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Xaa Met Tyr Thr Leu
 1 5 10 15

Asn

<210> 52

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 52

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr Met Phe Thr Leu
 1 5 10 15

Asn

<210> 53

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (14)

<223> L1-Napthylalanine

<400> 53

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr Met Xaa Thr Leu
 1 5 10 15

Asn

<210> 54

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<220>

<221> MOD_RES

<222> (14)

<223> L2-Napthylalanine

<400> 54

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr Met Xaa Thr Leu
 1 5 10 15

Asn

<210> 55

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 55

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr Val Tyr Thr Leu
 1 5 10 15

Asn

<210> 56

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<220>

<221> MOD_RES

<222> (13)

<223> L-Norleucine

<400> 56

Ala Glu Ser Thr Tyr His His Leu Ser Leu Gly Tyr Xaa Tyr Thr Leu
 1 5 10 15

Asn

<210> 57

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<220>

<221> MOD_RES

<222> (13)

<223> alpha-aminobutyric acid

<400> 57

Ala	Glu	Ser	Thr	Tyr	His	His	Leu	Ser	Leu	Gly	Tyr	Xaa	Tyr	Thr	Leu
1					5					10					15

Asn

<210> 58

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 58

Ala	Ala	Phe	Phe	Lys	Leu	Gly	Pro	Asn	Gly	Tyr	Val	Tyr	Leu	His	Ser
1				5					10					15	

Ala

<210> 59

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 59

Ala	Glu	Ala	Phe	Lys	Leu	Gly	Pro	Asn	Gly	Tyr	Val	Tyr	Leu	His	Ser
1				5					10					15	

Ala

<210> 60

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 60

Ala	Glu	Phe	Ala	Lys	Leu	Gly	Pro	Asn	Gly	Tyr	Val	Tyr	Leu	His	Ser
1				5					10					15	

Ala

<210> 61

<211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 61
 Ala Glu Phe Phe Ala Leu Gly Pro Asn Gly Tyr Val Tyr Leu His Ser
 1 5 10 15

Ala

<210> 62
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 62
 Ala Glu Phe Phe Lys Ala Gly Pro Asn Gly Tyr Val Tyr Leu His Ser
 1 5 10 15

Ala

<210> 63
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 63
 Ala Glu Phe Phe Lys Leu Ala Pro Asn Gly Tyr Val Tyr Leu His Ser
 1 5 10 15

Ala

<210> 64
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 64

Ala Glu Phe Phe Lys Leu Gly Ala Asn Gly Tyr Val Tyr Leu His Ser
 1 5 10 15

Ala

<210> 65

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 65

Ala Glu Phe Phe Lys Leu Gly Pro Ala Gly Tyr Val Tyr Leu His Ser
 1 5 10 15

Ala

<210> 66

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 66

Ala Glu Phe Phe Lys Leu Gly Pro Asn Ala Tyr Val Tyr Leu His Ser
 1 5 10 15

Ala

<210> 67

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 67

Ala Glu Phe Phe Lys Leu Gly Pro Asn Gly Ala Val Tyr Leu His Ser
 1 5 10 15

Ala

<210> 68

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 68

Ala Glu Phe Phe Lys Leu Gly Pro Asn Gly Tyr Ala Tyr Leu His Ser
1 5 10 15

Ala

<210> 69

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 69

Ala Glu Phe Phe Lys Leu Gly Pro Asn Gly Tyr Val Ala Leu His Ser
1 5 10 15

Ala

<210> 70

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 70

Ala Glu Phe Phe Lys Leu Gly Pro Asn Gly Tyr Val Tyr Ala His Ser
1 5 10 15

Ala

<210> 71

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 71

Ala Glu Phe Phe Lys Leu Gly Pro Asn Gly Tyr Val Tyr Leu Ala Ser
1 5 10 15

Ala

<210> 72
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 72
 Ala Glu Phe Phe Lys Leu Gly Pro Asn Gly Tyr Val Tyr Leu His Ala
 1 5 10 15

Ala

<210> 73
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 73
 Ala Glu Phe Phe Lys Leu Ser Pro Asn Gly Tyr Val Tyr Leu His Ser
 1 5 10 15

Ala

<210> 74
 <211> 17
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 74
 Ala Glu Phe Phe Lys Leu Ala Pro Asn Gly Tyr Val Tyr Leu His Ser
 1 5 10 15

Ala

<210> 75
 <211> 17
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic

peptide

<400> 75

Ala	Glu	Phe	Phe	Lys	Leu	Gly	Pro	Asn	Ser	Tyr	Val	Tyr	Leu	His	Ser
1				5					10					15	

Ala

<210> 76

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 76

Ala	Glu	Phe	Phe	Lys	Leu	Gly	Pro	Asn	Ala	Tyr	Val	Tyr	Leu	His	Ser
1				5					10					15	

Ala